

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2006/000500

A. CLASSIFICATION OF SUBJECT MATTER

According to International Patent Classification (IPC) or to both national classification and IPC

IPC: H01L 23/12 (2006.01), H01L 23/34 (2006.01), H01L 33/00 (2006.01)

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC: H01L 23/34, H01L 23/12, H01L 33/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
ECLA: H01L 23/367H, H01L 33/00B7

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)

Database: Delphion

Keywords: inferiorly, light, thermal, carrier, transmission, package, optical, heat, thermal management

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US6807345 (19-10-2004) Simon abstract; col. 2, line 30 to col. 4, line 55	1, 2, 8, 11, 13, 14, 17, 20, 22
A	WO03/005093 (16-01-2003) Sepulveda et al. whole document	1-22
A	US2004/0174679 (09-09-2004) Hung et al. whole document	1-22

Further documents are listed in the continuation of Box C.

See patent family annex.

• Special categories of cited documents :	
"A"	document defining the general state of the art which is not considered to be of particular relevance
"E"	earlier application or patent but published on or after the international filing date
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O"	document referring to an oral disclosure, use, exhibition or other means
"P"	document published prior to the international filing date but later than the priority date claimed
"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&"	document member of the same patent family

Date of the actual completion of the international search

25 July 2006 (25-07-2006)

Date of mailing of the international search report

31 July 2006 (31-07-2006)

Name and mailing address of the ISA/CA
Canadian Intellectual Property Office
Place du Portage I, C114 - 1st Floor, Box PCT
50 Victoria Street
Gatineau, Quebec K1A 0C9
Facsimile No.: 001(819)953-2476

Authorized officer

Coralie Gill (819) 9345143

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/CA2006/000500

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US6807345	19-10-2004	EP1367640 A2 US6807345 B2	03-12-2003 19-10-2004
WO03005093	16-01-2003	US2003002825 A1 WO03005093 A2	02-01-2003 16-01-2003
US2004174679	09-09-2004	TW566572Y Y US6791838 B1	11-12-2003 14-09-2004